over the emitting surface, said reflective film structure having a small aperture for emission of laser light.

- 4. Canceled.
- 5. Canceled.
- 6. (Original) A magnetic write head, comprising:
  a very small aperture laser (VSAL) having an emitting surface;
  a multilayer thin film structure over the emitting surface, said
  multilayer thin film structure having a very small aperture for
  emission of laser light from the VSAL, said multilayer thin film
  structure comprising:

a reflective conductive layer; and

an insulating layer disposed between the reflective conductive layer and the emitting surface.

- 7. Canceled.
- 8. Canceled.
- 9. (Original) A magnetic read/write head, comprising: a write head, including:
  - a very small aperture laser (VSAL) having an emitting surface and a side surface;

a multilayer thin film structure over the emitting surface, said multilayer thin film structure having a very small aperture for emission of laser light from the VSAL, said multilayer thin film structure comprising: a reflective conductive layer; and

an insulating layer disposed between the reflective conductive layer and the emitting surface;

a read head, including:

first and second magnetic shield layers;

first and second nonmagnetic gap layers disposed

between said first and second magnetic shield layers;

a magneticoresistive sensor disposed between said first and

second nonmagnetic gap layers; and

an interface layer disposed between the read head and the side of
the VSAL.

- 10. Canceled.
- 11. (currently amended) [The disk drive system recited in claim
- 10,] A disk drive system, comprising:
  - a magnetic recording disk;
- a magnetic read/write head for magnetically recording data
  on the magnetic recording disk, said magnetic read/write head
  comprising:

a magnetic write head, including:

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an optical element for providing a thermal

gradient in a magnetic recording media, said optical element

having an emitting surface and a side surface wherein said

optical element is a very small aperture laser (VSAL)[.]; and

a magnetic element for providing a magnetic field gradient in the magnetic recording media, said magnetic element located on said emitting surface;

a magnetic read head adjacent to said side surface, said read head including a magnetoresistive sensor;

an actuator for moving said read/write head across the magnetic disk so that the read/write head may access different regions of the magnetic disk; and

a recording channel coupled electrically to the write head

for magnetically recording data on the magnetic recording disk

and to the magnetoresistive sensor of the read head for detecting

changes in the resistance of the magnetoresistive sensor in

response to magnetic fields from the magnetically recorded data.

12. (Original) The disk drive system recited in claim 10, wherein said optical element includes a reflective film structure over the emitting surface, said reflective film structure having a small aperture for emission of laser light.

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13. Canceled.

- 14. (Original) A method of writing data on a magnetic recording media comprising the steps of:
- (a) providing a write head including a magnetic element for providing a magnetic write field gradient and a thermal element for providing a thermal gradient in the magnetic recording media;
- (b) providing a thermal spring magnetic recording media having first and second Curie temperatures;
- (c) heating a region of the magnetic recording media moving with respect to the write head to a temperature between said first and second Curie temperatures by using light emitted from said thermal element; and
- (d) applying a write current to the magnetic element to induce a magnetic write field at the region of the magnetic recording media heated by the thermal element and having a thermal gradient as it cools below said first Curie temperature.
- 15. (Original) The method of writing data recited in claim 14 wherein said magnetic write field provides a magnetic write field gradient coincident with and overlapping the thermal gradient in the magnetic recording media as it cools below said first Curie temperature.
- 16. (Original) The method of writing data recited in claim 14 wherein said thermal gradient is present at a trailing end of the

region of magnetic recording media heated by the thermal element as it moves relative to the write head.

- 17. (Original) The method of writing data recited in claim 14 wherein said thermal element comprises a very small aperture laser (VSAL).
- 18. (Original) The method of writing data recited in claim 14 wherein the magnetic element comprises a conductive layer for conducting a write current in a direction perpendicular to the motion of the magnetic recording media relative to the write head.
- 19. (Original) The method of writing data recited in claim 14 wherein the magnetic element comprises a ferromagnetic pole structure for providing a magnetic write field induced by a write current flowing in a conducting coil.
- 20. (Original) The method of writing data recited in claim 14 including the further step of:
- (e) adjusting the intensity of the light emitted from the thermal element to provide coincidence of the thermal gradient with the magnetic write field gradient in the cooling magnetic recording media.